# Track, Map, Locate. Indoors.

TRX Systems. Indoor Location.

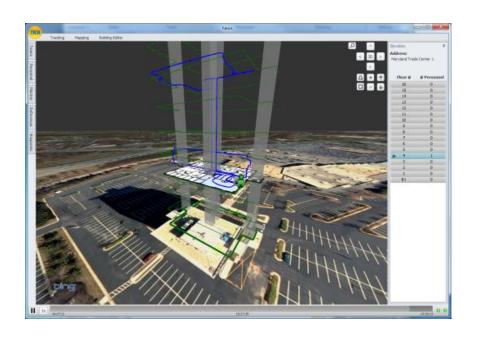


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## TRX Systems, Inc.







Deliver 3D indoor location, sensor fusion, mapping, and ranging solutions to defense, federal, and public safety personnel





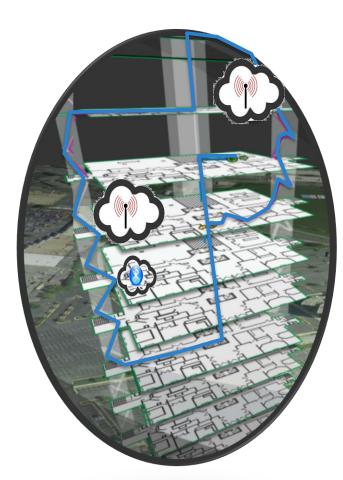






## Seamless Location – Indoor, Underground





TRX Seamless Location



Sensor Fusion



**RF Ranging** 

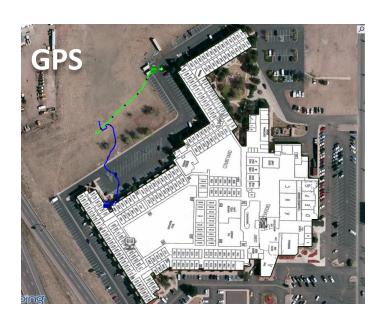


Crowdsourced Mapping

3 11/17/2013

# NEON – Location and Tracking Indoors





**NO Information Indoors** 



**Detailed Location Information** 

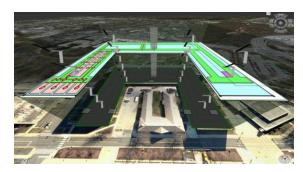
4 11/17/2013

## NEON Sensor Fusion, Ranging, And Mapping



## **Centralized Mapping**

Centralized Database,
Collaborative Computation
(e.g. Cloud/Command)



- Collaborative Fusion of Mapping Information
- Known maps/floor plans

## **Distributed Navigation**

Distributed Database, Collaborative Computation (e.g. Squad, Soldier)





#### Map Inference

 Building features, irregular structure

#### Ranging

Between people, anchors

Third Party Sensor • E

#### **Sensor Fusion**

Embedded sensors

5 11/17/2013

**Platforms** 

### **NEON Location Services**



Device-Based Software

Navigation Processing

Sensor Hub Fusion Location Options

- ☐ GPS
- ☐ Cell
- ☐ WiFi
- □ Inertial
- ☐ Beacons
- ☐Bldg Features
- Person to Person



Server/Cloud-Based Data

Assisted GPS
Cell Towers
Wi-Fi
Feature Maps
Ranging Maps
User Maps (P2P)
Known Map Data

6 11/17/2013

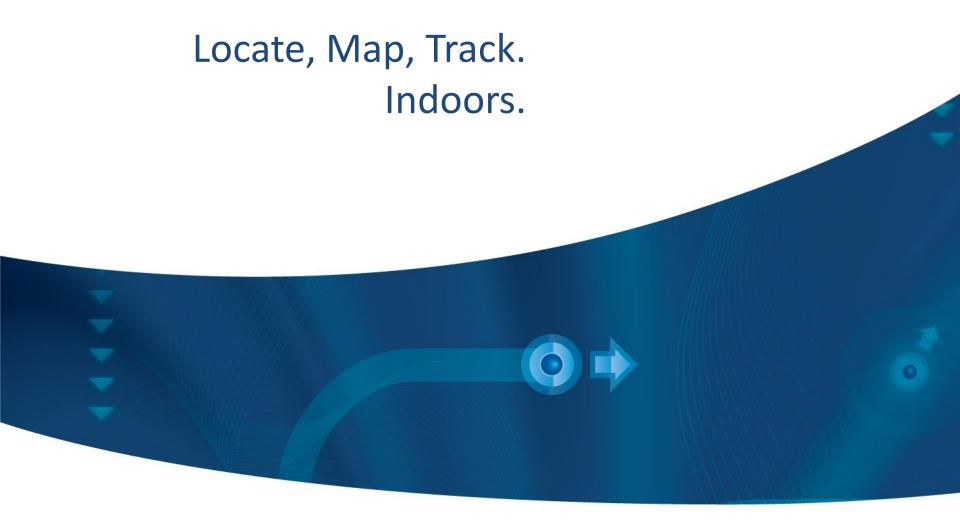
# Tracking & Location Experience





Partnerships include Motorola, General Dynamics, Ultra Electronics, Honeywell, Boeing. Real-world deployment experience; deep understanding of indoor location use cases and operational impacts of different technology approaches.

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